In the claims:

Please amend claim 6 and insert new claims 11-14 as shown below.

1. (Original) A method for preparing transformed plants expressing thyroid stimulating hormone receptor (hTSHR) or thyroid stimulating hormone receptor-extracellular domain (hTSHR-ECD), which comprises the steps of:

(a) transforming plant cells with the following polynucleotide sequences: (i) a polynucleotide sequence encoding hTSHR or hTSHR-ECD; (ii) a promoter that functions in plant cells to cause the production of an RNA molecule operably linked to the polynucleotide sequence of (i); and (iii) a 3'-non-translated region that functions in plant cells to cause the polyadenylation of the 3'-end of said RNA molecule;

(b) selecting transformed plant cells; and

(c) obtaining transformed plant by regenerating said transformed plant cells.

2. (Original) The method according to claim 1, wherein said plant is *Nicotiana tabacum*, *Cucumis melo*, *Curcumis sativa*, *Citrullus vulgaris* or *Brassica campestris*.

3. (Original) The method according to claim 1, wherein said transformation is performed with an *Agrobacterium* transformation system.

4. (Original) The method according to claim 3, wherein the *Agrobacterim* transformation system is an *Agrobacterium tumefaciens*-binary vector system.

5. (Original) The method according to claim 1 further comprising recovering hTSHR or hTHSR-ECD from the regenerated transformed plant.

6. (Currently amended) A transformed plant prepared by the method of ~~any one of claims~~ claim 1 ~~to 5~~ which expresses hTSHR or hTHSR-ECD.

7. (Original) A method for preparing thyroid stimulating hormone receptor (hTSHR) or thyroid stimulating hormone receptor-extracellular domain (hTSHR-ECD), which comprises the steps of:

(a) transforming plant cells with the following polynucleotide sequences: (i) a polynucleotide sequence encoding hTSHR or hTSHR-ECD; (ii) a promoter that functions in plant cells to cause the production of an RNA molecule operably linked to the polynucleotide sequence of (i); and (iii) a 3'-non-translated region that functions in plant cells to cause the polyadenylation of the 3'-end of said RNA molecule;

(b) selecting transformed plant cells;

(c) obtaining transformed plant by regenerating said transformed plant cells; and

(d) recovering hTSHR or hTHSR-ECD from said transformed plant.

8. (Original) The method according to claim 7, wherein said plant is *Nicotiana tabacum*, *Cucumis melo*, *Curcumis sativa*, *Citrullus vulgaris* or *Brassica campestris*.

9. (Original) The method according to claim 7, wherein the transformation is performed with an *Agrobacterium* transformation system.

10. (Original) The method according to claim 9, wherein said *Agrobacterim* transformation system is an *Agrobacterium tumefaciens*-binary vector system.

11. (New) A transformed plant prepared by the method of claim 2 which expresses hTSHR or hTHSR-ECD.

12. (New) A transformed plant prepared by the method of claim 3 which expresses hTSHR or hTHSR-ECD.

13. (New) A transformed plant prepared by the method of claim 4 which expresses hTSHR or hTHSR-ECD.

14. (New) A transformed plant prepared by the method of claim 5 which expresses hTSHR or hTHSR-ECD.